

ZAKHARYCHEV, A.V.; TORGOV, I.V.

New simple and rapid method for the preparation of Δ^2 -cyclopentenone starting from cyclopentadiene. Izv.AN SSSR.Otd.khim.nauk no.9:1682 S '62. (MIRA 15:10)

1. Institut khimii prirodnkh soyedineniy AN SSSR.
(Cyclopentenone) (Cyclopentadiene)

ZAKHARYCHEV, A.V.; LIMANOV, V.Ye.; ANANCHENKO, V.Ye.; PLATONOVA, A.V.;
TORGOV, I.V.

Synthesis of estrone derivatives based on
1-vinyl-1,2,3,4-tetrahydro-1,6-naphthalenedione. Izv. AN SSSR.
Ser.khim. no.9:1701 S '63. (MIRA 16:9)

1. Institut khimii prirodykh soyedineniy AN SSSR.
(Estrone) (Naphthalenedione)

ZAKHARYCHEV, A.V.; ANANCHENKO, S.N.; TORGOV, I.V.

New variant for synthesizing steroid compounds, derivatives of estrone. Izv. AN SSSR. Ser. khim. no.11:2056-2057 N '63.
(MIRA 17:1)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

ANANCHENKO, S. N.; TORODOV, I. V.; ZAKHARYCHEV, A. V.

"Routes to steroid compounds with aromatic ring A."

Report presented for the 3rd Intl. Symposium on the Chemistry of
Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

ZAKHARYCHEV, A.V.; ANANCHENKO, S.N.; TORGOV, I.V.

Cyclization of 3-methoxy- 1,3,5(10),9(11) -8,14-secoestra-
tetraene-14,17-dione to D-homoestrone derivatives. Izv. AN
SSSR. Ser. khim. no.8:1413-1416 '65. (MIRA 18:9)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

ZAKHARYCHEV, A.V.; LIMANOV, V.Ye.; ANANCHENKO, S.N.; FLATONOVA, A.V.; TORGOV, I.V.

1-Vinyl-1,2,3,4-tetraol and its condensation with
2-methyl-1,3-cyclohexanedione and 2-methyl-1,3-cyclopentanedione
into estrone derivatives. Izv. AN SSSR.Ser.khim. no.10:1809-1814
'65. (MIRA 18:10)

1. Institut khimii prirodnaykh soyedineniy AN SSSR.

ZAKHARYCHEV, A.V.; LAGIDZE, D.R.; ANANCHENKO, S.N.; TORGOV, I.V.

Synthesis of 18-nor-13-alkylestrones. Izv. AN SSSR. Ser. khim. no.4:
760 '65. (MIRA 18:5)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

USSR/Human and Animal Physiology. Internal Secretion

T-8

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65445

Author : Zakharycheva A.A., Samokhvalova M.A.

Inst

Title : The Response of the Adrenal Cortex to Injection of Adrenocorticotrophic Hormone in Itsenko-Cushing's Disease.

Orig Pub : Probl. endokrinol. i gormonoterapii, 1956, 2, No 5, 100-103

Abstract : In Itsenko-Cushing's disease with normal urinary 17-ketosteroid levels, a rise in the excretion of 17-ketosteroids after the injection of 40 units of ACTH (2 injections with a 6-hour interval) indicates hyperfunction of the adrenal cortex, while the absence of a response is indicative of atrophy and degeneration of the cortex. When the initial level of 17-ketosteroid excretion is elevated, the absence of a response to ACTH or a reduction in 17-ketosteroid excretion of urea and amino-nitrogen is indicative of degenerative changes in the adrenals.

Card : 1/1

ZAKHARYCHEVA, A.A., kandidat meditsinskikh nauk (Moskva); SAMOKHVALOVA, M.A.
(Moskva)

Reaction of the adrenal cortex to ACTH in Itsenko-Cushing disease.
Probl.endok. i gorm. 2 no.5:100-103 S-O '56. (MLRA 9:12)

1. Iz kliniki Vsesoyuznogo instituta eksperimental'noy endokrinologii
(dir. - prof. Ye.A.Vasyukova)

(STEROIDS, in urine,

17-keto, eff. of ACTH in Cushing dis. (Rus))

(ACTH, therapeutic use,

Cushing dis., eff. on urinary 17-ketosteroids (Rus))

(CUSHING DISEASE, therapy,

ACTH, eff. on urinary 17-ketosteroids (Rus))

ZAKHARYCHEVA, A. A.

IOFFE, B.M., kandidat meditsinskikh nauk; ZAKHARYCHEVA, A.A., kandidat meditsinskikh nauk (Moskva).

Effect of roentgenotherapy of the intermodiophyseal region on urinary 17-ketosteroids and corticosteroids in Itsenko-Cushing syndrome. Probl. endok. 1 gorm. 2 no.6:12-19 N-D '56. (MLRA 10:2)

1. Iz kliniki Vsesoyuznogo instituta eksperimental'noy endokrinologii (dir. - prof. Ye. A. Vasyukova).

(CUSHING SYNDROME, therapy.

x-ray, eff. on urine 17-ketosteroids & adrenal cortex hormones (Rus))

(RADIOTHERAPY, in various diseases.

Cushing synd., eff. on urinary 17-ketosteroids & adrenal cortex hormones (Rus))

(STEROIDS, in urine,

17-keto, eff. of x-ray ther. of Cushing synd. (Rus))

(ADRENAL CORTEX HORMONES, in urine,

eff. of x-ray ther. of Cushing synd. (Rus))

STEPANYAN-TARAKANOVA, A.M.; GOLUBEVA, L.Ya.; ZIKEYEVA, V.K.; KURTSIN', O.Ya.
TIKHOMIROVA, A.N.; MASLENIKOVA, Ye.M.; SOROKIN, G.Ye.;
ZAKHARYCHEVA, A.A.

Effect of combined therapy on patients with the cerebroendocrine
form of obesity. Vop. pit. 18 no. 6:16-24 N-D '59. (MIRA 14:2)

1. Iz Instituta pitaniya AMN SSSR, Moskva.
(CORPULENCE) (GLUTAMATES) (CORTISONE)

ZAKHARYCHEVA, A.A., kandidat meditsinskikh nauk (Moskva)

Urinary 17-ketosteroids in Various endocrine diseases. Probl.
endok. i gorm. } no.1:96-107 Ja-F '57. (MLRA 10:6)

1. Iz kliniki Vsesoyuznogo instituta eksperimental'noy endo-
krinologii (dir. - prof. Ye.A.Vasyukova)

(STERIODS, in urine,

17-keto, in endocrine dis., review (Rus))

(ENDOCRINE DISEASES, urine in,

17-ketosteroids, review (Rus))

SHAFAR, D. (Minsk); ZAKHAR'YENOK, N. (Minsk)

There should be an auditing department. Sov. torg. 36 no.11:
32-33 N. '62. (MIRA 16:1)

1. Glavnyy bukhgalter Ministerstva torgovli Belorusskoy SSR (for Shafar). 2. Nachal'nik revizionnogo otdela Ministerstva torgovli Belorusskoy SSR (for Zakhar'yenok).
(White Russia--Retail trade--Auditing and inspection)

ZAKHAR'YEV, B. N.; SOKOLOV, S. N.

"Effect of Enhanced Barrier Penetrability for Complex Particles."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

OIYAI (Joint Inst Nuclear Physics)

BELYAYEV, V.B.; ZAKHAR'YEV, B.N.; NEUDACHIN, V.G.

Energy dependence of differential cross sections and the mechanism
Of (d, p) reactions. Atom.energ. 9 no.4:298-300 0 '60.

(MIRA 13'9)

(Nuclear reactions)

BELYAYEV, V.B.; ZAKHAR'YEV, B.N.; SOLOV'YEV, V.G.

Superfluidity of light nuclei. Zhur.eksp.i teor.fiz. 38
no.3:952-954 Mr '60. (MIRA 13:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclei, Atomic)

S/056/62/042/005/035/050
B102/B138

AUTHORS: Balashov, V. V., Belyayev, V. B., Zakhar'yov, B. N.
TITLE: Dipole excitations of nuclei according to the superfluid
model
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,
no. 5, 1962, 1365-1370

TEXT: The superfluid model has proved to be one of the best to explain nuclear peculiarities. Now it is used to investigate the possibilities of dipole excitations. The dipole state of a nucleus is considered as a superposition of a great number of two-quasiparticle excitations. The energy of this state is virtually unchanged by taking account of nucleon pairing in comparison with the values obtained in the single-particle model. These estimates (Wilkinson model) yield, however, far too low values of the giant resonance of photoabsorption. The dipole energy can be raised by introduction of dipole-dipole interaction, in addition to the pairing-type interaction. It is shown that the effects of collective intensification of dipole transitions and the presence of an

Card 1/3

Dipole excitations of nuclei ...

S/056/62/042/005/035/050
B102/B138

energy shift of the dipole state with respect to the single-particle value are caused by nucleon correlations of dipole-dipole type. Long-range correlations of other multipolarity contribute to the dispersion of the dipole excitation. The increase in dipole excitation energy is proportional to the number of states in the last filled shell. In agreement with the shell model this effect is fundamental for heavy nuclei and unimportant for light ones. Pairing-type excitations have only a weak effect on the dipole excitation. It raises the energy of the dipole state only to the extent required for a destruction of the pairs. The contribution of pairing to the dispersion of the dipole excitation is of the order of c^2 . The results indicate the direction of further development of the shell model of the giant resonance in deformed nuclei (S. G. Nilsson, B. R. Mottelson, Nucl. Phys., 13, 281, 1959). Allowance for pairing does not eliminate the main disadvantage of the model, the far too low value of giant resonance. This can be done by considering the non-diagonal dipole-dipole interaction between Nilsson-type single-particle states. Results of this will be published in later papers. N. P. Yudin is thanked for discussions. There are 2 figures and 1 table.

Card 2/3

Dipole excitations of nuclei ...

S/056/62/042/005/035/050
B102/B138

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta (Institute of Nuclear Physics of Moscow State
University)

SUBMITTED: December 23, 1961

Card 3/3

BALASHOV, V.V.; BELYAYEV, V.B.; ZAKHAR'YEV, B.N.

Dipole excitations of nuclei in the superfluid model. Zhur.
eksp. i teor. fiz. 42 no.5:1365-1370 My '62. (MIRA 15:9)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta.

(Dipole moments) (Nuclear models) (Superfluidity)

24(5)

AUTHORS:

Belyayev, V. B., Zakhar'yev, B. N.

SOV/56-35-4-28/52

TITLE:

On the Depolarization of μ^- -Mesons in Hydrogen, Deuterium, and Tritium (O depolyarizatsii μ^- -mezonov v vodorode, deyterii i tritii)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 4, pp 996 - 1000 (USSR)

ABSTRACT:

For the determination of the character interaction between negative myons and protons the investigation of the capture of the polarized μ^- -meson is of considerable interest. However, this process becomes complicated because of the depolarization of the myon by the medium. In the present paper the authors investigate these conditions for hydrogen, deuterium, and tritium as well as the effects that depolarize μ^- -mesons, by the method developed by Zel'dovich and Sakharov (Ref 2). The numerical calculation results are given in 3 tables. Table 1 contains the phases of the scattering of mesic atoms by nuclei for the states Σ_u and Σ_g for hydrogen, deuterium and tritium;

Card 1/3

On the Depolarization of μ^- -Mesons in Hydrogen,
Deuterium, and Tritium

SOV/56-35-4-28/52

table 2 shows the corresponding scattering cross sections, and table 3 contains the charge exchange possibilities. Numerical computations were carried out by S.Lomnev by means of an electronic computer. The results obtained by theoretical investigation show that in hydrogen and tritium the myons are completely depolarized before the mesic atom is slowed down to thermal energies. For the myon capture in the K-orbit of the mesic atom and for the case of the formation of mesic molecules the depolarization probabilities are determined. The motion of nuclei is taken into account by means of a correction $\sim \mu/M$. Also the differences in the hyperfine structure levels are approximately taken into account. In the course of the discussion, results are compared with those obtained by other authors. In conclusion, the authors thank Ya.B.Zel'dovich, Academician, who supervised this work, S.S.Gershteyn for discussions, and Ya.A.Smorodinskiy and A.Ye.Ignatenko for their interest in this work; they also thank S.Lomnev for carrying out computations.

Card 2/3

On the Depolarization of μ^- -Mesons in Hydrogen,
Deuterium, and Tritium

SOV/56-35-4-23/52

There are 3 tables and 12 references, 8 of which are Soviet.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (United
Institute for Nuclear Research)

SUBMITTED: May 19, 1958 (initially) and June 9, 1958 (after revision)

Card 3/3

ZAKHAR'YEV, B.N.; PYATOV, N.I.; FURMAN, V.I.

Matrix elements of β -transitions. Zhur. eksp. i teor. fiz.
41 no.5:1669-1672 N '61. (MIRA 14:12)

1. Ob'yedinennyy institut yadernykh issledovaniy.
(Quantum theory) (Beta rays--Decay)

81226
S/089/60/009/004/006/020
B006/B070

24.66.00
AUTHORS:

Belyayev, V. B., Zakhar'yev, B. N., Neudachin, V. G.

TITLE:

The Energy Dependence of the Differential Cross Sections and
the Mechanism of the (d,p) Reaction *A*

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 4, pp. 298 - 300

TEXT: The present "Letter to the Editor" gives the results of an analysis of the experimental data on stripping reactions. $d\sigma/d\Omega$ is represented as a function of the relative reduced level widths γ^2 in Born approximation, and the dependence of γ^2 on the deuteron energy E_d is described by Butler's formula. In order that the need for corrections to Butler's formula be as small as possible, only cases with $E_d > 4$ Mev have been selected for analysis. The results of the analysis are given in a table. The dependence of γ^2 on E_d is also given in the table. The absolute error of these data is 50%, and the relative error is 10%. In a number of cases,

Card 1/3

The Energy Dependence of the Differential Cross Sections and the Mechanism of the (d,p) Reaction ⁸¹²²⁶S/089/60/009/004/006/020 B006/B070

the relative and absolute values of the reduced widths change with E_d .

Reaction	Level of the Final Nucleus [MeV]	Spin and Parity	Transition	Reduced Widths				
				$E_d = 8$	8.9	9	14.8	19 Mev
$C^{12}(d,p)C^{13}$	ground level	$1/2^-$	$p_{d \rightarrow p}^8$	2.2	1.3	1.2	1.9	0.9
	3.09	$1/2^+$	$p_{d \rightarrow p}^8 s_{1/2}$	3.0	3.8	6.5	8.3	1.6
	3.684	$3/2^-$	$p_{d \rightarrow p}^8$	0.16	0.48	0.38	0.28	-
	3.855	$5/2^+$	$p_{d \rightarrow p}^8 d_{5/2}$	3.5	2.6	1.4	5.7	1.1
$O^{16}(d,p)O^{17}$	ground level	$5/2^+$	$p_{d \rightarrow p}^{12} p_{d \rightarrow p}^{12} s_{5/2}$	$E_d = 4.11$	7.7	7.73	9	19.1 Mev
		$1/2^+$	$p_{d \rightarrow p}^{12} p_{d \rightarrow p}^{12} s_{1/2}$	0.66	1.0	2.5	3(rel.)	1.8
	0.875			1.1	2.6	7.0	9(rel.)	3.7
$N^{14}(d,p)N^{15}$	ground level	$1/2^-$	$p_{d \rightarrow p}^{10} p_{d \rightarrow p}^{11}$	$E_d = 8$	9	14.8	Mev	
	6.33	$3/2^-$	$p_{d \rightarrow p}^{10} p_{d \rightarrow p}^{11}$	2.1	-	1.0		
	8.32	$1/2^+$	$p_{d \rightarrow p}^{10} p_{d \rightarrow p}^{10} s_{1/2}$	-	0.23	0.18		
				11.5	4.5	5.4		

Card 2/3

The Energy Dependence of the Differential Cross Sections and the Mechanism of the (d,p) Reaction ⁸⁴²²⁶S/089/60/009/004/006/020 B006/B070

All reduced widths are given in the unit of 10^{-19} erg/cm. At the same time, some data are given for the $\text{Be}^9(\text{d,p})\text{Be}^{10}$ reaction. The data given in the table are taken from Refs. 2, 9, 10, 11, 12, 13, 14, 15, and 17. The interpretation of the data in the table is briefly discussed. There are 1 table and 18 references: 3 Soviet, 6 British, 1 Japanese, and 8 US.

SUBMITTED: February 10, 1960

Card 3/3

BALANDIN, A.A.; ISAGULYANTS, G.V.; SOKOLOVA, N.P.; ZAKHARYCHEVA, I.I.

Mechanism of propane formation in the decomposition of isopropyl alcohol on vanadium trioxide. Izv. AN SSSR. Otd.khim.nauk
no.9:1549-1551 S '61. (MIRA 14:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR,
(Isopropyl alcohol) (Propane)

ZAKHARYCHEVA, I. I.; ISAGULYANTS, G. V.; BALANDIN, A. A.

Formation of ethane during decomposition of ethyl alcohol on titanium dioxide. Izv. AN SSSR. Otd. khim. nauk no.1:179-180 '63. (MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Ethane) (Ethyl alcohol)

ZAKHAR^YEV, B. N., Cand Phys-Math Sci -- (diss) " M^- -mesomolecular hydrogen ions and M^- -mesomolecular processes." /Dubna, 1960/. 6 pp; (Joint Inst of Nuclear Research, Laboratory of Theoretical Physics); 160 copies; price not given; printed on duplicating apparatus; (KL, 17-60, 138)

82426

S/056/60/038/03/27/033
B006/B014

246520

AUTHORS:

Belyayev, V. B., Zakhar'yev, B. N., Solov'yev, V. G.

TITLE:

Superfluidity of Light Nuclei /9

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 3, pp. 952-954

TEXT: In the article under review, the authors made use of the physical ideas and mathematical methods of the theory of superconductivity to study the properties of light nuclei on the basis of the shell model. The nuclei of the range $22 \leq A \leq 32$ were selected as suited to the method. The residual interactions of protons and neutrons in the outer shell are studied. The most essential differences of these interactions in light nuclei as compared to heavy nuclei lies in the existence of neutron-proton interactions in addition to the pp- and nn interactions. The state of a nucleon is characterized by the quantum numbers s , m , and φ ($\varphi = \pm 1$ the sign of the projection (m) of the momentum onto the symmetry axis of the nucleus). The Hamiltonian of residual interactions between the nucleons within the range of Fermi surface energy $E_F - \delta \leq E(s, m) \leq E_F + \Delta$ is


Card 1/3

Superfluidity of Light Nuclei

82420

S/056/60/038/03/27/033
B006/B014

given by (1) in an isotopic-symmetric form. The relations, which are first derived in a general manner, are discussed in the approximation $J = \text{const}$ and $q = \text{const}$. It was found that (in the model under consideration) the residual np-, pp-, and nn interactions (after separation of the self-consistent field) produce a superfluid state of the nucleus. The ground-state energy of an even nucleus does not depend on the type of pairing (pp, nn, or pn) of the nucleons. The first excited state in light even-even (or odd-odd-with $z = N$) nuclei is separated from the ground state by an energy gap of the order 2ϵ . For the purpose of explaining the energy levels and the binding energies of the nuclei under consideration it is necessary to take into account the quadruple correlations of nucleons (α -particles) in addition to the pair correlations. The authors' assumption that np, pp, and nn pair correlations with equal quantum numbers s and m exist, which lead to the superfluid state of light nuclei was confirmed by data (Ref. 2) on the binding energy of the last neutron in light nuclei. Finally, the authors thank N. N. Bogolyubov for his highly interesting discussion. There are 4 references, 3 of which are Soviet.



Card 2/3

Superfluidity of Light Nuclei

82426

S/056/60/038/03/27/033
B006/B014

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED: October 12, 1959

X

Card 3/3

BELYAYEV, V.B.; ZAKHAR'YEV, B.N.

Pair correlations and single-nucleon reduced level widths in nuclei. Izv. AN SSSR Ser.fiz. 25 no.9:1152-1155 '61.

(MIRA 14:8)

1. Laboratoriya teoreticheskoy fiziki Ob'yedinennogo instituta yadernykh issledovaniy.

(Nuclei, Atomic)

ZAKHAR'YEV, B.N.

24.6100, 24.6200, 16.8100,
16.7500

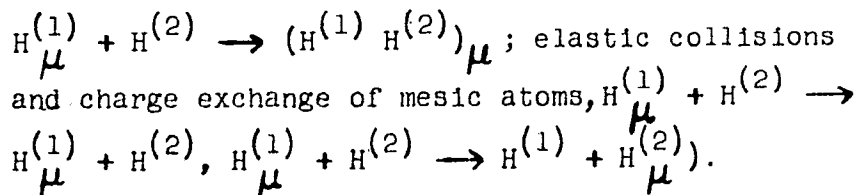
76981
SOV/56-37-6-21/55

AUTHORS: Belyaev, V. B., Gershteyn, S. S., Zakhar'ev, B. N.,
Lomnev, S. P.

TITLE: μ -Mesic Molecular Processes in Hydrogen

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki,
1959, Vol 37, Nr 6, pp 1652-1662 (USSR)

ABSTRACT: A theoretical analysis was made of the mesic atomic
and mesic molecular processes in a medium of
hydrogen isotopes (the formation of mesic molecules,



The calculations were performed on the BESM electronic
machine with compensation for the motion of the nuclei.

Card 1/4

μ^- Mesic Molecular Processes in Hydrogen

76981

SOV/56-37-6-21/55

The magnitude of the correction was of the order of m_μ/M . The mesomolecular processes of μ^- -mesons with hydrogen are due to the neutrality of mesic atoms. This is owing to the fact that at distances greater than Bohr's orbits of mesoatoms (2.57×10^{-11} cm), the nuclear charge is practically fully shielded by the charge of the meson. Such a condition results in a peculiar catalysis of reactions in hydrogen (or its isotope mixtures), which was predicted by A. D. Sakharov (Report Phys. Inst. Acad. Sciences USSR, Moscow, 1948), and was experimentally investigated by A. Ashmore, R. Nordhagen, K. Strauch, and B. M. Townes (Proc. Phys. Soc., 71, 161, 1958). The effective cross section of the charge exchange (ch.e.) was determined in asymptotic form for $R \rightarrow \infty$, and it could be represented as follows:

$$\sigma_{\text{ch.e.}} = 4\pi f a_\mu^2 v_0/v, \text{ where } v \text{ is velocity before}$$

Card 2/4

Mesic Molecular Processes in Hydrogen

76981

SOV/56-37-6-21/55

collision; $v_0 = \sqrt{2\Delta E/M_{12}}$; $a_\mu = \hbar^2/m_\mu e^2$. For the processes:

$p_\mu + d \rightarrow d_\mu + p$, $p_\mu + t \rightarrow t_\mu + p$, and $d_\mu + t \rightarrow t_\mu + d$, the values of f were found to be, respectively: 2.11, 0.84, and 0.0067. In Table 3 are listed levels of the mesic molecules.

	L = 0		L = 1		L = 2	L = 3
	n = 0	n = 1	n = 0	n = 1	n = 0	n = 1
$(pp)_\mu$	252	—	109	—	—	—
$(dd)_\mu$	330	40	226	72	88	—
$(tt)_\mu$	367	86	288	45	170	55
$(pd)_\mu$	220	—	90	—	—	—
$(pt)_\mu$	213	—	98	—	—	—
$(dt)_\mu$	319	32	232	—	102	—

Card 3/4

Table 3. Levels of mesic molecules.

Mesic Molecular Processes in Hydrogen

76981

SOV/56-37-6-21/55

The levels are given in electron volts; for mesic molecules with different nuclei the energy levels are calculated from the level of the heavier isotope. There are 3 tables; 1 graph; and 18 references, 9 Soviet, 5 U.K., 1 German, 1 Italian, 2 U.S. The 5 most recent U.S. and U.K. references are: L. W. Alvarez, H. Bradner, F. S. Crawford, Jr., J. A. Crawford, P. Falk-Vairant, M. L. Good, J. D. Low, A. H. Rosenfeld, F. Solmitz, M. L. Stevenson, H.K. Ticho, R. D. Tripp, Phys. Rev., 105, 1127, 1957; A. Ashmore, R. Nordhagen, K. Strauch, R. M. Townes, Proc. Phys. Soc., 71, 161, 1958; S. Cohen, D. L. Judd, R. I. Riddell, Phys. Rev., 110, 1471, 1958; M. Shimizu, Y. Mizuno, T. Izuyama, Progr. Theor. Phys., 20, 777, 1958; A. Dalgarno, R. McCarroll, Proc. Roy. Soc., 237, 385, 1956.

ASSOCIATION: Joint Inst. Nuclear Research, USSR (Ob'edinenny Institut yadernykh issledovaniy, SSSR)

SUBMITTED: June 7, 1959
Card 4/4

ZAKHAR'YEV, B.N.

[Widths of neutron resonances] O shirinakh neitronnykh
rezonansov. Dubna, Ob"edenennyi in-t iadernykh issledo-
vani, 1962. 8 p. (MIRA 16:10)
(Neutrons--Spectra)

BELYAYEV, V.B.; ZAKHAR'YEV, B.N.

Depolarization of Λ -mesons in hydrogen, deuterium and tritium
[with summary in English]. Zhur. eksp. i teore. fiz. 35 no.4:996-1000
O '58. (MIRA 12:1)

1.Ob'yedinennyy institut yadernykh issledovaniy.
(Hydrogen--Isotopes) (Mesons)

ZAKHAR'YEV, B.N.; SOKOLOV, S.N.; SARANTSEVA, V.R., tekhn. red.

[Virtual excitations of a composite particle] 0 virtual'-
nykh возбуждениах сложной чaстiцы. Dubna, Ob"edinennyi
in-t iadernykh issl., 1964. 17 p. (MIRA 17:4)

BE LYAYEV, V.B.; GERSHTEYN, S.S.; ZAKHAR'YEV, B.N.; LOMNEV, S.P.

μ^- -Mesonic molecular processes in hydrogen. Zhur.eksp.i teor.fiz.
37 no.6:1652-1662 D '59. (MIRA 14:10)

1. Ob'yedinennyy institut yadernykh issledovaniy.
(Mesons) (Hydrogen—Isotopes)

ZAKHAR'YEV B. N.

AUTHORS: Belyayev, V. B., Zakhar'yev, B. N.

56-2-32/51

TITLE: On the Double β -Decay of Ca^{48} (O dvoynom β -raspade Ca^{48})

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958,
Vol 34, Nr 2, pp 505-506 (USSR)

ABSTRACT: According to various experimental works (references 1, 2) the half life of double β -decay is greater than 10^{18} years. This made necessary a checking of the estimates for the probability of the β -decay with the emission of two neutrinos, mentioned in other works. E. Goepfert-Mayer (reference 3) estimated the probability of the two-neutrino decay but did not compute the nuclear matrix element which lead to a disagreement with the experiment. The authors deal with just this calculation in the approximation of the shell model. In this they investigate the case most suitable for these calculations, that is to say that of the decay $\text{Ca}^{48} - \text{Ti}^{48}$. Here it is made condition that the transition passes through a virtual intermediary state of Sc^{48} . All three nuclei of interest here (Ca^{48} , Sc^{48} , Ti^{48}) have the same core Ca^{40} which does

Card 1/3

On the Double β -Decay of Ca^{48}

56-2-32/51

not take part in the process. Therefore only 8 nucleons are of interest here anyway. The radial functions of the mentioned nuclei are equal to each other and the corresponding integrals are not investigated here. The construction of the functions is made much easier by the simple structure of the nuclei selected. The functions for the initial state and for the final state were determined by L. A. Maksimov and Ya. A. Smorodinskiy (reference 4). The functions of the intermediary state are constructed analogously. Their spin-path-share corresponds to Yung's scheme [211111] for $T = 3$ and [1111111] for $T = 4$. In the first case the intermediary function is reduced from the standpoint of spatial symmetry to a function of $s = 2$ nucleons. The formula found here for the half life is mentioned. If it is considered that the decay can also pass through excited intermediary states the value of about 10^{19} years is obtained for its half life. A correction factor has still to be attached to the shell model calculated according to the decay probability. There are 5 references, 2 of which are Slavic.

ASSOCIATION: United Institute for Nuclear Research (Ob'yedinenny
Card 2/3 institut yadernykh issledovaniy)

On the Double β -Decay of Ca^{48}

56-2-32/51

SULMITTED: November 8, 1957

AVAILABLE: Library of Congress

1. Calcium isotopes- β -Decay
2. Titanium isotopes- β -Decay

Card 3/3

44,55 44,55 44,55 44,55 44,55

AUTHORS: Amirkhanov, I.; Zakhar'yev, B. N.

ORG: Joint Institute of Nuclear Research (Ob'yedinenny Institut Yadernykh Issledovaniy)

SOURCE CODE: UR/0056/65/049/004/1097/1102

TITLE: Violation of barrier penetration symmetry for composite particles

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 4, 1965, 1097-1102

TOPIC TAGS: nuclear potential barrier, nuclear particle, elementary particle, computer calculation

ABSTRACT: This paper is a continuation of investigations of the specific properties of composite particles moving in an external field (Ann. der Phys. v. 14, 229, 1964 and v. 15, 5, 1965). The correctness of the method employed in the article was also investigated previously (Ann. der Phys. v. 15, 183, 1965). Basic equations are first derived, describing the motion of a composite particle in an external field, and it is shown that the ratio of the coefficients of barrier penetrability in opposite directions must depend on the shape of the barrier. The

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L 11961-66

ACC NR: AP5026601

energy dependence of the effect under discussion at the threshold of excitation of the composite particle is given, after the effect is analyzed for the limiting case of small barrier asymmetry. The results of computer calculations for a specific potential barrier are then presented. It is shown that the penetration coefficients for asymmetric barriers in opposite directions may be very different for composite particles if their energy is sufficient for actual excitation of the higher states of internal motion. This effect should manifest itself in various atomic and nuclear phenomena. Authors thank S. N. Sokolov, discussion with whom stimulated this research. Orig. art. has: 341, 55 figures and 21 formulas.

SUB CODE: 20/ SUBM DATE: 30Dec64/ NR REF SOV: 002/ OTH REF: 004

leh

Card

2/2

ZAKHAR'YEV, D.A.

"An attachment for Lapping Hardened Gears,"
Stanki i Instrument, 10, No. 1, 1939.

Report U-1505, 4 Oct 1951.

ACC NR: 180017090

(A)

SOURCE CODE: UR/0413/66/000/009/0097/0097

INVENTOR: Shatrov, N. F.; Lazarev, M. N.; Patrikeyev, G. A.; Zakhar'yev, G. A.

ORG: None

TITLE: A device for measuring the total pressure in the face sections of a gas mask.
Class 42, No. 181359 [announced by the Military Academy of Chemical Protection
(Voyennaya akademiya khimicheskoy zashchity)]

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 9, 1966, 97

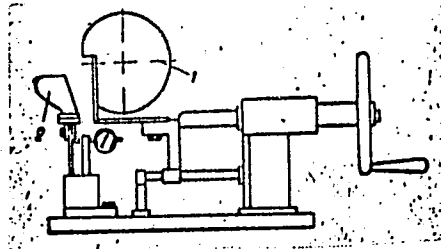
TOPIC TAGS: gas mask, pressure measurement

ABSTRACT: This Author's Certificate introduces a device for measuring the total pressure in the face sections of a gas mask. The unit contains a base and a sectional model of a head which is divided along the cross section. One of the parts of this model is fastened to a dynamometric spring element and connected to a force measuring mechanism, while the other is mounted on a feed mechanism. Measurement accuracy is improved by making the model in the form of two spherical sections with different diameters and a flat base at the point of junction.

Card 1/2

UDC: 620.162.4:623.445.4

ACC NR: AP0015698



1 and 2--spherical sections

SUB CODE: 15, 14/ SUBM DATE: 31Jul64

Card 2/2

GAZENKO, O.G.; GIURDZHIAN, A.A.; ZAKHAR'YEV, G.A.

Device for excrement removal in a hermetic cabin.
biol. 1:328-335 '62.

Probl. *kosm.*
(MIRA 15:12)

(SPACE BIOLOGY)

S/865/62/001/000/020/033
E028/E185

AUTHORS: Gazenko O.G., Gyurdzhian A.A., and Zakhar'yev, G.A.

TITLE: A sanitary appliance in a space capsule

SOURCE: Problemy kosmicheskoy biologii. v.1. Ed. by
N.M. Sisakyan. Moscow, Izd-vo AN SSSR, 1962. 328-335

TEXT: The authors have developed a sanitary appliance to be worn by dogs during space flights. It consists of a one-piece garment of rubberized fabric adjustable by straps, with appropriate holes for the head, limbs and tail. The rear end is provided with an obturating ring which fits closely around the pelvis. A tube-like extension leads from this to a fixed tank in which the urine and faeces are collected separately. The appliance functioned satisfactorily and was well tolerated in 20-day laboratory experiments; it was subsequently used on the dog Layka during an actual space flight. There are 6 figures.

Card 1/1

ZAKHAR^YEV, I.; DRAGANOV, R.

"Economic basis for raising and fattening lambs designated to be slaughtered at 6-7 months of age."

p. 13 (Izvestia) Vol. 8, 1957. Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5, May 1958

ZAKHAR'YEV, N

ZAKHAR'YEV, N.

Trade union meetings are training schools. Mast.ugl. 9
no.8:20 Ag '60. (MIRA 13:8)

1. Predsedatel' komiteta profsoyuza shakhty "Abashevskaya
3-4" tresta Kuybyshevugol', Kuzbass.
(Kuznetsk Basin--Trade unions)

ZAKHAR'YEV, N. I.

Zakhar'yev, N. I. "Experiments in winter feeding of milk cows," Trudy Kirgiz. nauch.-
issled. in-ta zhivotnovodstva, Issue 9, 1948, p. 109-30

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

ZAKHAR'YEV, N. I., RYABOKON', A. S. and OBUKHOVA, Z. D.

"The Ensilage of Folders in Collapsible, Portable, and Wall-less Towers", Sov
Zootekhnika, No. 7, pp 54-69, 1950.

ZAKHAR'YEV, N.I.

[Putting up silage in collapsible portable towers] Silosovanie kormov
v razbornykh perenosnykh bashniakh. Frunze, Kirgizskoe gos. izd-vo.
1953. 22 p. (MLRA 10:3)
(Silos)

ZAKHAR'YEV, N.I., redakter; **SEKHBYAKOV, V.I.,** tekhnicheskiiy redakter.

[First scientific session of the Academy of Sciences of the Kirghis
S.S.R.] **Pervaya nauchnaya sessiya Akademii Kirgizskoi SSR.** Frunse,
1955. 516 p. (MLA 9:5)

1. **Akademiya nauk Kirgizskoy SSR.**
(Science)

ZAKHAR'YEV, N.I.; OBUKHOVA, Z.D.; CHESHEV, K.S.; YAKUSHENKO, Ye.S.

Composition and food value of grasses in main types of mountain
pastures and hay of sown hayfields of Susamyr. Izv. AN Kir. SSR
no.3:43-101 '56. (MLRA 10:4)

(Susamyr--feeding and feeding stuffs)

ZAKHAR'YEV, N.I.; YAKUSHENKO, Ye.S.; OBUKHOVA, Z.D.; KOTYSHEVA, N.G.

Composition and nutritive value of grasses of the Fergana
Range meadow steppes abounding in the barley *Hordeum bulbosum*.
Izv. AN Kir. SSR no. 6:97-111 '58. (MIRA 11:12)
(Fergana Range--Grasses)

USSR/Farm Animals - General Problems.

Q-1

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30890

Author : Zakhar'yev N.I., Obukhova Z.D., Andronov A.S.

Inst

Title

: The Nutritiousness of Indian Corn under Different Timings and Ways of Harvesting.

(Pitatel'nost' kukuruzy pri razlichnykh srokakh i sposobakh uborki).

(Orig Pub : Viol. nauchno-tekhn. inform. Kirg. n.-i. in-t zhivotno-vodstva i vet., 1956, No 1-2, 37-42.

Abstract : The amount of feed units in the crop of stems with leaves reaches its maximum at the stage of milky-waxy ripeness, and that of protein, at the stage of the formation of styles ("silks"). The aggregate crop of feed units in the whole plant (stems, leaves and corncobs) continues to grow until full ripeness is attained (it then constitutes 151.4% of the crop of milky ripeness).

Card 1/1

- 5 -

ZAKHAR'YEV, N.I., prof., doktor sel'skokhoz.nauk; SOLOV'YEVA, T.M.,
Kand.sel'skokhoz.nauk

Raising young cattle on rations with increased amounts of forage
corn and alfalfa. Zhivotnovodstvo 23 no.2:41-46 F '61. (MIRA 15:11)

(Kirghizistan--Heifers--Feeding and feeds)
(Alfalfa as feed) (Corn as feed)

ZAKHAR'YEV, N.I.

Estimating the nutritive value of feeds. Izv. AN Kir. SSR. Ser.
biol. nauk 3 no.3:117-119 '61. (MIRA 14:12)
(FEEDS)

ZAKHAR'YEV, N.I.

Fundamental methodological principles in the investigation of the
nutritive value of corn and corn silage. Izv. AN Kir. SSR. Ser.
biol. nauk 3 no.3:131-143 '61. (MIRA 14:12)
(CORN (MAIZE)). (ENSILAGE)

YAKOVLEV, Valeriy Yakovlevich; ZAKHAR'YEV, N.I., otv. red.

[Chemical composition and nutritive value of the grass
stand of pastures and hayfields in the upland Tien Shan]
Khimicheskii sostav i pitatel'nost' travostoia past-
bishch senokosov syrtov Tian'-Shania. Frunze, Izd-vo AN
Kirgiz.SSR, 1963. 114 p. (MIRA 16:11)
(Tien Shan--Pastures and meadows)

ZAKHAR'YEV, N.I., prof.; KOVERGA, L.V.; KOTYSHEVA, N.G.; OBUKHOVA,
Z.D.; YAKUSHENKO, Ye.S.

[Feeds in the Kirghiz S.S.R.; their composition and nutritive value] Korma Kirgizskoi SSR ... sostav i pitatel'nost'. [By] N.I.Zakhar'ev i dr. Frunze Izd-vo AN Kirg.SSR. Vol.1.[Chemical composition and feed value of grasses in the mountain pastures and hayfields of Fergana, Alay, and Susamyr] Khimicheskii sostav i pitatel'nost' travy gornykh pastbishch i senokosov Fergany, Alaia i Susamyra. 1964. 341 p. (MIRA 17:9)

ACCESSION NR: AP4045386

s/0286/64/000/016/0052/0052

AUTHORS: Baisov, M. Ya.; Bondarenko, G. P.; Zakhar'yev, Yu. G.

TITLE: Joint sealing of two tubes in a high-temperature gas flow conduit. Class F, No. 164750

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1964, 52

TOPIC TAGS: joint, hot gas container

ABSTRACT: This Author Certificate describes joint sealing of two tubes in a high-temperature gas flow conduit, using a spring-loaded gasket of elastic material. To insure the repeated performance of the conduit without tightening or replacement of the gasket, a spring-loaded gasket in the form of a ring with rectangular cross section is packed in a groove closed about the perimeter at the end of one of the tubes (see Fig. 1 on the Enclosure). The gasket is held by the end of the second tube. It compensates for thermal expansion and a possible misalignment of the tubes at the joint. To decrease the temperature in the region of the gasket and spring, closed annular cavities for circulating cooling liquid are placed on the inner surface at the end of the tubes. At the end of one of the tubes there is a

Card 1/3

ACCESSION NR: AP4045386

deflector shield for protecting the gasket from the action of the incandescent gas flow. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 31May62

SUB CODE: IE

NO REF SOV: 000

: ENCL: 01

OTHER: 000

Card 2/3

ACCESSION NR: AP4045386

ENCLOSURE: 01

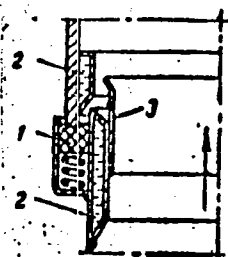


Fig. 1. Joint sealing of two tubes in a high-temperature gas flow conduit

1- spring-loaded gasket; 2- closed annular cavity; 3- deflector shield

Card 3/3

ZAKHAR'YEVA, N.A.

Surgical therapy of uterine fibromyoma during pregnancy. Sov.
med. 27 no.6:113-114 Ja '64.

(MIRA 18:1)

1. Ginekologicheskaya klinika (zav. - kand. med. nauk M.S. TSi-
rul'nikov) Moskovskogo nauchno-issledovatel'skogo instituta
skoroy pomoshchi imeni Sklifosovskogo (direktor - M.M. Tarasov),
nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. B.A.
Petrov).

ZAKHAR'YEVSKAYA, I.D., inzh.-khimik

Dyeing of lace fabrics with procion dyes. Tekst.prom. 22
no.8:57-58 Ag '62. (MIRA 15:8)

1. Otdelochnyy tsekh gardinno-tyulevoy fabriki imeni Samoylovoy.
(Dyes and dyeing) (Textile fabrics)

ZAKHAR'YEVSKAYA, I.D.; ONIKOV, L. I.; MARKOV, N.F.

Yarn vat dyeing with PEM apparatuses. Tekst.prom. 15 no.6:
29-31 Je '55. (MLRA 8:?)
(Dyes and dying--Apparatus)

ZAKHAR'YEVSKAYA, I.D.; LENTOVSKAYA, V.A.; ZAKHAR'YEVSKIY, M.S.

Prospects for automatic control of vat-dyeing processes. Tekst.
prom. 17 no.6:32-38 Je '57. (MLRA 10:7)

(Dyes and dyeing) (Automatic control)

ZAKHAR'YEVSKAYA, I.D.; LENTOVSKAYA, V.A.; ZAKHAR'YEVSKIY, M.S.

Measuring the end-point oxidation-reduction potential of vat-dye
solutions. Tekst.prom. 18 no.5:71-72 My '58. (MIRA 11:5)
(Dyes and dyeing) (Oxidation-reduction reaction)

11F

ZAKHAR'YEVSKAYA, M. A.

Processes and Properties Index

Experiments on the resorption of lipides in subcutaneous cellular tissue. M. A. Zakhar'evskaya. Arch. sci. biol. (U. S. S. R.) 33, No. 2-3, 111-23 (1939); Chem. Zentr. 1939, II, 1323. — One group of rabbits was injected in the subcutis of the back and ear with cholesterol, stearic acid and Na stearate; another group was injected with a mixt. of infusorial earth and cholesterol; a third group was injected with these 2 substances immediately and at varying intervals. Cholesterol was resorbed by the tissues through intracellular formation of anisotropic lipides of the type of cholesterol ester in the macrophages. M. G. Moore

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

111

ZAKHAR'YEVSKAYA, M. A.

Anichkov, N. N., Volkova, K. G., and Zakhar'yevskaya, M. A. "The pathological anatomy of hypertonic disease", Trudy Chetvertoy sessii Akad. med. nauk SSSR, Moscow, 1948, p. 18-29.

SO: U-2888, 12 Feb. 53, (Leptopia' Zhurnal 'nykh Statey, NO. 2, 1949).

ZAKHAR YEVSKEYA, M.A.

~~Characteristics of amyloid and hyalin and their staining properties.~~
Arkhn.pat., Moskva 13 no.3:62-66 May-June 51. (CLML 21:1)

1. Of the Department of Pathological Anatomy (Head--V.G. Garshin, Active Member of the Academy of Medical Sciences USSR), First Leningrad Medical Institute imeni Academician I.P.Pavlov.

GARSHIN, V.G.; ZAKHAR'YEVSKAYA, M.A.

Effect of roentgen rays on proliferation of the epithelium. Arkh. pat.,
Moskva 15 no.2:72-75 Mar-Apr 1953. (GLML 24:3)

1. Of the Department of Pathological Anatomy (Head -- V. G. Garshin,
Active Member of the Academy of Medical Sciences USSR), First Leningrad
Medical Institute imeni Academician I. P. Pavlov.

ZAKHAR'YEVSKAYA, M.A.

Peculiarities and staining properties of protein mass in atherosclerosis
of the spleen. Arkh. pat., Moskva 15 no.3:55-61 May-June 1953. (GLML 25:1)

1. Of the Department of Pathological Anatomy (Scientific Supervisor --
V. G. Garshin, Active Member AMS USSR), First Leningrad Medical Institute
imeni Academician I. P. Pavlov, Leningrad.

~~ZAKHAR~~ YEVS KAYA, M. A.

ANICHKOV, N.N., akademik (Leningrad, 22, Kirovskiy pr., 69/71, kv.24);
ZAKHAR'YEVSKAYA, M.A.

Experimental studies on autogenic infectious processes in the
lungs. Vest. khir. 74 no.5:19-25 J1-Ag '54. (MLRA 7:10)
(LUNGS, diseases,
exper. autogenic infect.)

ZAKHARYEVSKAYA, M.A.

USSR/Medicine - Histology

Card : 1/1

Authors : Anichkov, N. N., Academician, and Zakharyevskaya, M. A.

Title : Changes in the pulmonary tissue during injury of the mucous membrane of the trachea

Periodical : Dokl. AN SSSR, 97, Ed. 2, 327 - 328, July 1954

Abstract : Rabbits were used in experiment to determine the changes taking place in the pulmonary tissue during an injury of the mucous membrane of the trachea. The results are described. Four references.

Institution : Acad. of Med. Sc. USSR, Institute of Experimental Medicine

Submitted : May 3, 1954

ZAKHAR'YEVSKAYA, M.A., professor; ANICHKOV, N.N., akademik.

Changes of the lungs in impairment of the evacuative function
of the trachea and bronchi. Vest.khir.76 no.9:29-33 0 '55.
(MLRA 9:1)

1. Iz otdela patologicheskoy anatomii Instituta eksperimental'noy
meditsiny Akademii meditsinskikh nauk SSSR.

(TRACHEA, dis.

impairment of evacuative funct., eff. on lungs)

(BRONCHI, dis.

same)

(LUNGS, in various dis.

impairment of evacuative funct. of bronchi & trachea)

ANICHEV, N.N., akademik; ZAKHAR' YEVSKAYA, M.A., professor

Vladimir Georgievich Garshin, 1887--1956. Arkh.pat. 18 no.5:139-
140 '56. (MLRA 9:12)
(GARSHIN, VLADIMIR GEORGIEVICH, 1887-1956)

ZAKHAR'YEVSKAYA, M.A., ANICHKOV, N.H. (Leningrad)

Pulmonary changes following disorders of laryngeal innervation;
experimental studies [with summary in English]. Arkh.pat. 20
no.9:3-10 S'58 (MIRA 11:10)

1. Iz otdela patologicheskoy anatomii Instituta eksperimental'noy
meditsiny ANU SSSR.

(LARYNX, innervation,

eff. of section of laryngeal nerve on lungs in rabbits
(Rus))

(LUNGS, physiology,

eff. of laryngeal denervation in rabbits (Rus))

ANICHKOV, N.N., akademik; ZAKHAR'YEVSKAYA, M.A., prof.; TISHKIN, N.A.,
doktor med.nauk; SARKISOV, D.S., doktor med.nauk; PETRUMCHIN, V.G.,
kand. med.nauk; PINCHUK, V.M., kand.med.nauk

Solomon Samuilovich Vail'; obituary. Arkh.pat. 21 no. 1:94-95 '59.
(MIRA 12:1)

(OBITUARIES,
Vail', Solomon, S. (Rus))

ZAKHAR'YEVSKAYA, M. A., prof.; ANICHKOV, N. N., akad. (Leningrad)

Aspiration pneumonia (Review of the literature and personal experimental data). Arkh. pat. no.12:3-10 '61.

(MIRA 15:7)

1. Iz otdela patologicheskoy anatomii Instituta eksperimental'noy meditsiny i kafedry patologicheskoy anatomii I Leningradskogo meditsinskogo instituta.

(PNEUMONIA)

ANICHKOV, N.N., prof., akademik; ZAKHAR'YEVSKAYA, M.A., prof. (Leningrad)

Pathogenesis of bronchopneumonia. Vrach. delo 4:3-5 Ap '62.
3-3- (MIRA 15:5)

1. Akademiya AN SSSR; deystvitel'nyy chlen AMN SSSR (for Anichkov).
(PNEUMONIA)

IVANOV, V.F., doktor tekhn. nauk, prof. [deceased]; ONUFRIYEV, N.M., doktor tekhn. nauk, prof.; ROT, A.V., kand. arkh. dots.; GRIGOR'YEVA, A.M., arkh.; ZAKHAR'YEVSKAYA, M.A., kand. tekhn. nauk; ZEL'TEN, L.V., kand. arkh.; KRIVSKOY, V.A., arkh.; KUNTSMAN, M.S., kand. arkh. dots.; LOKHANOV, G.I., arkh.; NIKOLAYEV, A.I., doktor tekhn. nauk, prof.; OSIPOV, Ye.A., kand. tekhn. nauk, dots.; SAKHNOVSKIY, K.V., doktor tekhn. nauk prof.; TRULL', V.A., kand. tekhn. nauk, dots.; KARRQ V.M., inzh., nauchn. red.; MARGOLIN, A.G., inzh., nauchn. red.

[Elements of buildings and structures] Konstruktsii zdani i sooruzhenii. Leningrad, Stroiizdat, 1965. 487 p.

(MIRA 18:12)

-- ZAKHAR'YEVSKAYA, N.N.

MARKUS, L.M.; ZAKHAR'YEVSKAYA, N.N.; VASINA, Ye.N.; LEVITINA, P.Ye.;
RATINA, S.M.

Treatment of tabetic atrophy of optic nerves by intramuscular
injection of sulfa suspensions. Vest.vener. no.2:56-57 Mr-Apr '50.
(CLML 19:3)

1. Of the Syphilological Clinic (Head -- Prof. L.M.Markus), Ukrainian
Scientific-Research Skin-Venereological Institute (Director -- Prof.
A.M.Krichevskiy).

DERYAGIN, B.V.; ZAKHAVAYEVA, N.N.; TALAYEV, M.V.

Determining the specific surface of powders and porous bodies.
Vest.AN SSSR 33 no.2:80-81. F '63. (MIRA 16:2)
(Surface measurement) (Porous materials)

ZAKHAVAYEVA, N.N.; SHEN' TSZHEN'-MIN' .

Determining the strength of coke by the specific surface of coals.
Koks i khim. no.6:13-15 '63. (MIRA 16:9)

1. Institut fizicheskoy khimii AN SSSR (for Zakhavayeva).
(Coke---Testing)

ZAKHAR'YEVA, O.I.

Polyploidy in plant ontogeny. Trudy MOIP. Otd.biol. 5:98-109
'62. (MIRA 16:5)

1. Laboratoriya tsitologii Botanicheskogo instituta imeni
V.L. Komarova AN SSSR, Leningrad.
(POLYPLOIDY) (KARYOKINESIS)

ZAKHAR'YEVSKAYA, N. S., CAND MED SCI, "STUDY OF THE
ACTIVITY OF GAMMA-GLOBULIN IN ^{regard} ~~reaction~~ TO STREPTOCOCCUS
ISOLATED FROM SCARLAT ^{a fever} ~~ina~~ PATIENTS." GOR'KIY, 1960.
(GOR'KIY STATE MED INST IM S. M. KIROV). (KL, 2-61, 217).

-251-

ZAKHAR'YEVSKAYA, O. A.

4

С. З. Е. С. У. [Synthesis and transformations of dimethyl-2-methyl-3-oxobutanoate. T. A. Pavlovskaya and O. A. Zakhar'yevskaya (A. A. Zhdanov MIPChI, Leningrad). *Chem. Abstr.* 1957, 52: 13517. 1957, 52: 13517. Condensation of iso-BuAc with C_2H_5 in the presence of pot. KOH in H_2O gave 45-80% iso-BuCMe(OH)C(CH₃)₂CH₃, b. 146-9°, bp 76-8°, n_D^{20} 1.435, along with 5-15% (iso-BuCMe(OH)C(CH₃)₂CH₃), b. 153-7°, m. 56-60°. The alc. (50 g.) treated with 4.2 g. HgO in 25 ml. H₂SO₄ and 150 ml. H₂O gave 15% iso-BuCMe(OH)C(CH₃)₂CH₃, d. 0.9395, n_D^{20} 1.435, n_D^{25} 1.433; *semicarbazone*, m. 151-2°. THF (0.5 mole) added to (HClMgBr₂) (from 25 g. Mg) and the soln., after standing overnight, decanted, with dil. HCl yielded 40% unreacted alc. and 10 g. product, described below. To increase the yield 1 mole of the Grignard reagent was employed, yielding 61% product, b. 50-61°, identified as iso-BuCMe(OH)CMe(OH)C(CH₃)₂CH₃, m. 50-61° (after long standing), d. 0.9431, n_D^{20} 1.4395 (1), purified with P₂O₅ to iso-BuAc. The residue after the diln. of I was (iso-BuCMe(OH)CMe(OH)C(CH₃)₂CH₃), b. 159-60°, a solid. Heating I with 20 parts 40% H₂SO₄ 9.5 hr. at 65-100° gave 10% product, b. 53-62°, which had a free C=O group but no conjugated double bonds. A similar reaction run 2.5 hrs. gave 2 products, b. 11-13° and b. 130-50°. The former, C₁₀H₁₈O, d. 0.8333, n_D^{20} 1.4392, n_D^{25} 1.4387, has a C=O group, and appeared to be iso-BuCMe(OH)C(CH₃)₂CH₃; it did not evolve C₂H₄ in the presence of alkali; oxidation with KMnO₄ gave only AcOH and (CO₂H). The last product, b. 130-50°, d. 0.9404, n_D^{20} 1.4392, was C₁₀H₁₈O₂, apparently a dimer of a dehydration product of I. Detailed description of products of I were isolated. G. M. Kozlovskii

ZAKHAR'YEVSKIY, A. N.

Zakhar'Yevskiy, A. N. "An instrument for checking the parallelism of effective surfaces of screw micrometers," In symposium: Nekotoryye voprosy tekhniki priborostroyeniya, Moscow-Leningrad, 1948, p. 52-64

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Stat'ey, No. 3, 1949)

ZAKHAR'YEVSKIY, A.N.

USSR/Optics - Optical Engineering.

K-4

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7648

Author : Zakhar'yevskiy, A.N.

Inst :

Title : Modern Status of Microscope Building.

Orig Pub : Vopr. mikroskopii. M-L., Mashgiz, 1956, 43-71.

Abstract : Survey.

Card 1/1

- 15 -

LAPINA, G.N.; ZAKHAR'YEVSKIY, A.N.

Cover-glasses for microscope slides. Opt.-mekh.prom. [25] no.3:17-20
Mr '58. (MIRA 11:9)

(Microscopy)

ZAM AN'YEVSKIY, Aleksandr N., Prof., State Optical Institute, Leningrad

"Measurement of the refraction index of silicates and organic glasses"
(Section IV)

report submitted for Measurement and Automation, Scientific Society for (Hungarian)
Intl Measurements Conference - Budapest, Hungary, 24-30 Nov 58

L 3558-66 EWT(1)/EEC(k)-2/FCS(k)/EWA(h) WR
ACCESSION NR: AP5024414

UR/0286/65/000/015/0095/0095

AUTHORS: Zakhar'yevskiy, A. N.; Kuznetsova, A. F.34
BTITLE: Microinterferometer. Class 42, No. 173454

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 95

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ABSTRACT: This Author Certificate presents a microinterferometer according to Author Certificate No. 80251. To utilize it as a microprofilometer, the interferometer plates differ in thickness. A slit diaphragm is mounted in the forward focal plane of the ocular (see Fig. 1 on the Enclosure). A direct vision spectral prism and a readout device are placed behind the ocular. The readout device is, for example, in the form of a luminous readout index projected on the spectral prism. The index is put into the field of view by rotating the spectral prism using a micrometer screw with a readout drum. Orig. art. has: 1 diagram.

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Card 1/2

L 3558-66

ACCESSION NR: AP5024414

ENCLOSURE: 01

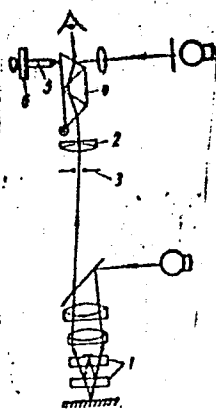


Fig. 1. 1- interferometer plates; 2- ocular;
3- slit diaphragm; 4- direct vision spectral
prism; 5- micrometer screw; 6- readout drum

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Card 2/2